

Norden's Ultra power series 100-150 kVA UPS is an online double conversion UPS that features three-phase in both input and output and a unity output power factor. This tower design allows for maximum parallel operation of up to 6 units, making it perfect for industrial and other critical business applications with strict voltage regulation.



General Features

- Wide input voltage range 140~485Vac (Phase voltage 80~280Vac)
- High input power factor, can be up to 0.99
- Three-level inverter topology, the efficiency can be up to 96%
- Support parallel expanded operation: maximum is 6 units
- Input current harmonic: <3%
- Large charging current
- High adaptability for the load it can connect full inductive load or capacitive load
- Power Walk in function, it can reduce the star current impact to the system and reduce the capacity of the generator
- Optimized battery group, the quantity of battery: 30-50pcs
- LBS function can realize 2 independent UPS systems work in synchronization enhancing the reliability of the system
- The output factor is 1.0, and can be meet 100% unbalanced load
- Support USB, RS485, RS232, SNMP, dry contact card

SPECIFICATIONS

MODEL		CN933100U / CN933100U-5L	CN933120U / CN933120U-5L	CN933150U / CN933150U-5L	
Capacity	kVA	100	120	150	
	kW	100	120	150	
Input	Normal Voltage	380/400/415Vac (3Ph+N+PE)			
	Operating voltage range	138~305Vac for 40% Load; 305~485Vac for Full Load			
	Harmonic distortion(THDi)	<3%(100% linear load)			
	Operating frequency range	40~70Hz			
	Power factor	≥0.99			
	Bypass voltage range	220Vac Max.Voltage:+25% (optional +10%,+15%,+20%) 230Vac Max.Voltage:+20%(optional +10%,+15%) 240Vac Max.Voltage:+15%(optional +10%) Min.Voltage:-45%(optional -15%,-20%,-30%)			
	Bypass Frequency range	Frequency synchronize tracing range:±10%			
	Generator input	Yes			
Output	Rated voltage	380/400/415Vac (3Ph+N+PE)			
	Power factor	1.0			
	Voltage regulation	±1%			
	Frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)		
		Bat. mode	50/60(±0.2%)Hz		
	Crest factor	3:1			
	Harmonic distortion (THDv)	≤2% with linear load, ≤4% with non-linear load			
	Efficiency	95.5%			
Output Waveform	Pure Sine Wave				
Battery	Battery voltage	±180/±192/±204/±216/±228/±240/±252/±264/±276/±288/±300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs)			
	Charging current (Charging current can be set according to the battery capacity installed)	40A		60A	

MODEL		CN933100U / CN933100U-5L	CN933120U / CN933120U-5L	CN933150U / CN933150U-5L
System Features	Transfer time	Mains to battery:0ms; Inverter to bypass:0ms		
	Overload	Line mode	≤110%: Overload 60min, ≤150%: Overload 1min, >150% 1.2s turn to bypass mode immediately	
		Bypass mode	30°C: 135% Overload long term; 40°C: 125% Overload long term >1000%, 100ms	
	Backfeed Protection	Yes		
	Alarm	Overload, utility abnormal, UPS fault, battery low, etc		
	Protection	Short circuit, overload, over-temperature, battery low, fan fault alarm		
	Remote LCD	Yes		
Communication	USB, RS232, RS485, Parallel port, dry contact, Intelligent slot, LBS, SNMP card (optional), Relay card (optional)			
Environment	Operating temperature	0-40°C		
	Storage temperature	-25-55°C		
	Humidity range	0-95% (Non-condensing)		
	Altitude	<1500m		
Physical	Dimension W x D x H (mm)	442x850x1200		442x850x1200
	Net Weight (kg)	160	170	200
Standards	Safety	IEC/EN62040-1, IEC/EN62477-1		
	EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC61000-4-11)		

*Product specifications and appearances are subject to change without prior notice.

ORDERING INFORMATION

Part Number	Description
CN933100U	100kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN933100U-5L	100kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)
CN933120U	120kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN933120U-5L	120kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)
CN933150U	150kVA Double Conversion Tower Type 3/3 UPS (External Battery)
CN933150U-5L	150kVA Double Conversion Tower Type 3/3 UPS with 5inch LCD display (External Battery)

COMPATIBLE ACCESSORIES

Part Number	Description
CNS01	SNMP Card